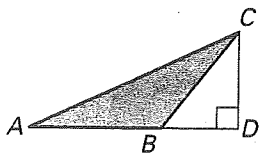


Practice A

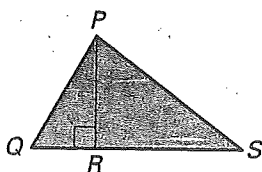
For use with pages 430–438

Identify a base of the shaded triangle and its corresponding height.

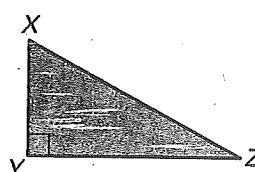
1.



2.

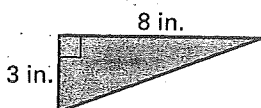


3.

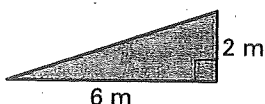


Find the area of the right triangle.

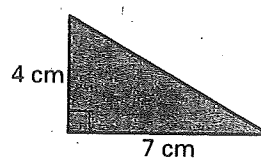
4.



5.

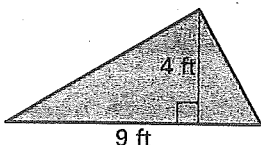


6.

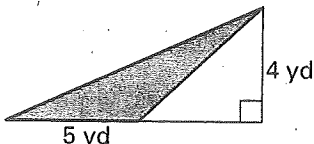


Find the area of the shaded triangle.

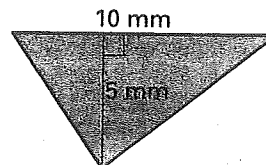
7.



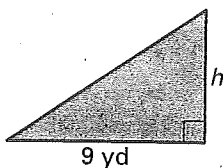
8.



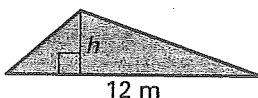
9.

A gives the area of the triangle. Find the height h .

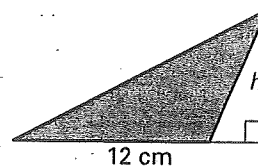
10. $A = 27 \text{ yd}^2$



11. $A = 18 \text{ m}^2$



12. $A = 48 \text{ cm}^2$

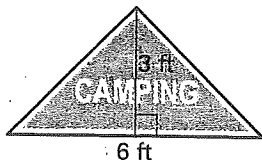


In Exercises 13 and 14, the scale factor of two similar triangles is given. Find the ratio of their areas.

13. The scale factor of $\triangle PQR$ to $\triangle XYZ$ is $\frac{3}{4}$.

14. The scale factor of $\triangle PQR$ to $\triangle XYZ$ is $\frac{2}{5}$.

15. The base of a triangular camping sign is 6 feet and the height of the sign is 3 feet. Find the area of the sign.



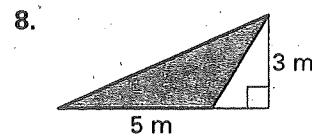
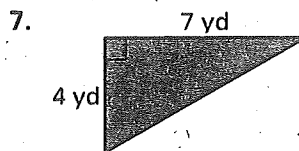
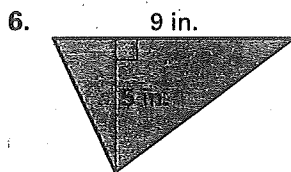
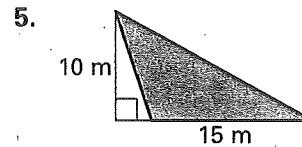
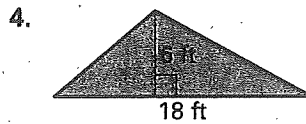
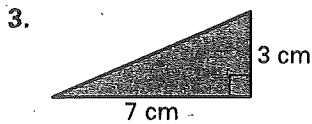
Practice B

For use with pages 430–438

Complete the statement.

- The ? of a triangle is the perpendicular segment from a vertex to a line containing the opposite side, called the ? of the triangle.
- If two polygons are similar with a scale factor of $\frac{a}{b}$, then the ratio of their areas is ? .

Find the area of the shaded triangle.

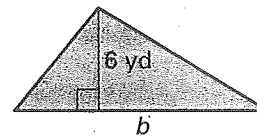
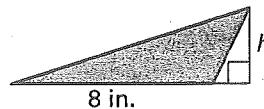
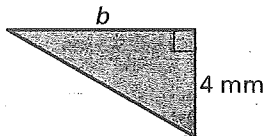


A gives the area of the triangle. Find the missing measure.

9. $A = 14 \text{ mm}^2$

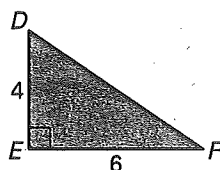
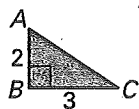
10. $A = 12 \text{ in.}^2$

11. $A = 45 \text{ yd}^2$

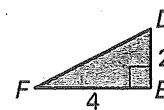
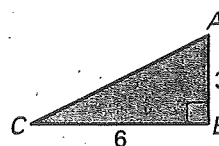


Triangles ABC and DEF are similar. Find the scale factor of $\triangle ABC$ to $\triangle DEF$. Then find the ratio of their areas.

12.



13.



The front side of the A-frame house shown is 22 feet high and has an area of 286 square feet.

- How wide is the house at ground level?
- What is the area of the triangular window if it is 5.5 feet wide and 4 feet high?

